

PHYSICS

BOOKS - CHETANA PHYSICS (MARATHI ENGLISH)

MODEL ACTIVITY SHEET

Exercise

1. 1 KWh= A. $36 \times 10^6 J$ B. $3.6 \times 10^6 J$ C.

 $0.36 imes 10^6 J$ D. 3.6 J

A.
$$36 imes 10^6 J$$

B.
$$3.6 imes 10^6 J$$

C.
$$3.6 imes 10^6 J$$

D.
$$36 imes 109J$$

Answer:



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2. The number of electrons in hte outermost shell of caesium is__.

A. 3		
B. 4		
C. 1		
D. 6		
Anguyor		
Answer:		



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3. The specific heat capacity is measured in C.G.S. system in _____.

- A. cal
- B. kcal
- C. cal/g° C
- D. $jo\underline{e}\,/\,kg^{\,\circ}\,C$

Answer:



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4. The chemical formula of the rust is

A. $FeO. xH_2O$

C.
$$Fe_2O_3$$
. xH_2O

D.
$$FeO_2$$
. xH_2O

Answer:



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5. In which block of the modern periodic table are the non-metlas present?

A. s-block

B. p-block			
C. d-block			
D. f-block			
Answer:			
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6. Complete the analogy:			
Concave Lens:Myopia: : Convex Lens:			
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7. The following group of elements have similar chemical properties. Identify with reason wheter it is a Dobereiner's traid N(14.00), P(30.9), As(74.9).



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8. True or false

The filament in the electric bulb is made of a wire with high melting point



9. For the given polymer, give the name and structure of its constituent monomer Polystyrene.



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10. Give scientific reasons:

In cold regions in winter the Pipes for water supply break and even rocks crack.



11. Give scientific reasons:

Carbonate and suphide ores are usualy converted into oxides during the process of extraction



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12. We cannot clearly see an object kept at a distance less than 25 cm from the eye.



13. What do you mean by dispersion of light?



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14. Draw the structural formula of the following

3-methyl pentane



15. Write balanced chemical equation for the given word equation Copper+Conc.Nitric acid rarr copper nitrate +Nitrogen dioxide+water



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16. The focal length of a convex lens is 20 cm.What is the power?



17. Define: Centripetal force



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18. Define: Centripetal force



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19. Write the laws given by Kepler.How did they help Newton to arrive at the inverse square law of gravity?

20. Suppose the orbit of a satellite is exactly 35780 km above the earth's surface. Determine the tangential velocity of the satellite $(G=6.67\times 10^{-11}Nm^2/kg^2, \text{ mass of the earth=}6\times 10^{24} \text{ kg, Radius of the earth}=6.4\times 10^6 m)$

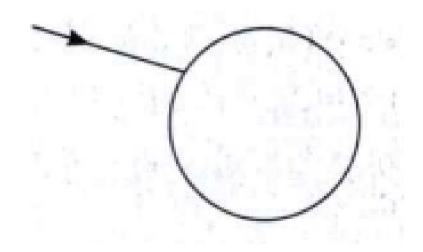


21. Merits of Modern periodic table over Mendeleev's periodic table



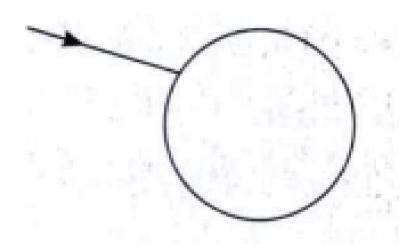
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22.



Complete the diagram of rainbow formation.

23.



name the phenomenon of light involed in the given process.



24. What is Combination reaction? Give one example with balanced chemical equation



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25. What is redox reaction?



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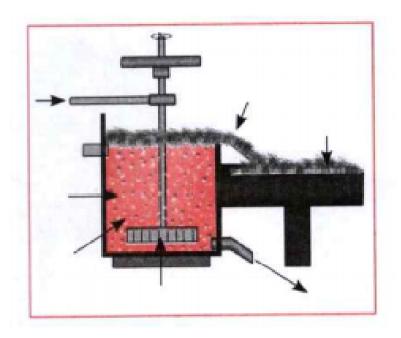
26. The force of Graviation between two bodies having irregular shape is taken to be the distance between their:



27. If the distance between the two bodies is tripled, what will be the Gravitational force between them



28.



Redraw the given diagram, label the parts and name the diagram.



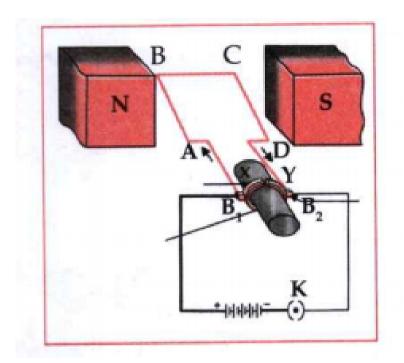
29. State the law: Mendeleev's Periodic law.



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30. Redraw the diagram making necessary changes in the diagram to convert it into AC

Generator.





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31. State the principle of working of a Generator.

32. Complete the paragraph.

(DCBA, B_1 to B_2 , right, left, ABCD, B_2 to B_1)

In AC generator, according to Fleming's _____

hand rule, electric current is produced in the branches AB and CD. Thus, the current flows in the direction_____. In the external circuit, the circuit, the current flows from ____ through the galvanometer. If instead of one

loop coil, a coil consisting of several turns is

used, the current of magnitude several times

flows. After half rotation, the branch AB takes the place of branch CD and the branch CD takes the position of the branch AB. Therefore, the induced current goes as



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33. Observe the given reaction and answer the question given below.

What

type of reaction is it? Define it



34. Observe the given reaction and answer the question given below.

Name

the reactant and the product



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35. Observe the given reaction and answer the question given below.

uses of the product/products.



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36. The process by which nucleotide in the gene suddenly changes its position is called .

A. translation

B. translocation

C. mutation

D. transcription.

Answer:



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37. Carbon dating method measures the radio activity of C-14 and the ratio of ______ present in the organism's body.

A. C-12 to C-14

B. C-6 to C-7

- C. C-14 to C-12
- D. C-14 to O-16

Answer:



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38. The forest Conservation Act was enacted in

----·

A. 1980

B. 1986

C. 1972

D. 1963

A. A. 1980

B. B. 1986

C. C. 1972

D. D. 1963

Answer:



- 39. _____ is not a component of nuclear power plant.A. control pods
- B. gas turbine
- C. steam turbine
- D. condenser
 - A. A. control rodas
 - B. B. gas turbine
 - C. C. steam turbine
 - D. D. condenser

Answer:



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40. Choose the correct alternative ana write its alphabet against the sub - question number:

Vinegar is the chemically acid.

- A. Citric
- B. Gluconic
- C. Glutamic

D. Acetic

Answer:



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41. Name the following.

First record of human like animal in the form of ape from East Africa.



42. Name the following:

Bacterial strains which convert milk to Yoghurt.



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43. State whether the given statements are

True or False. Correct the false statement.

Radiations of cell phones penetrate the bones

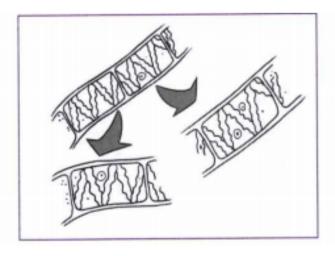
of adults more effectively than the bones of

children.

44. Forest conserved in the name of God



45. What is the type of asexual reproduction shown in the diagram below?





46. Give scientific reasons:

Oxygen is necessary for complete oxidation of glucose.



47. Give scientific reasons:

Body temperature of reptiles is not constant.



48. Give Scientific Reasons:

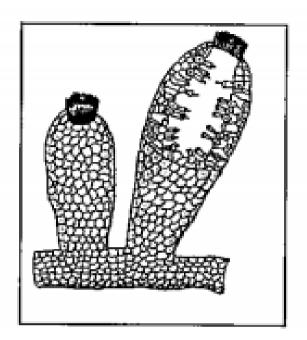
The constructions of turbine is different for different types of power plants.



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49. Identify the phylum of the given animal and write any two characterstics of this

phylum.





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50. What do we learn from the story of Jadav Molai Peyang?

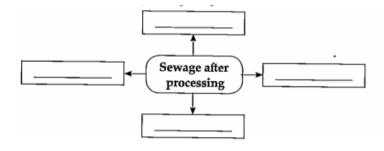


51. Why some of the organs in human body are most valuable?



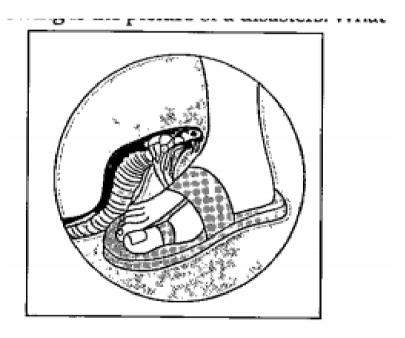
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52. Complete the following concept map:





53. Following is the picture of a disasters. What will be your post disaster management in this case?





54. Describe Darwin's theory of evolution.



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55. Which projects will you run in relation to environmental conservation? How?



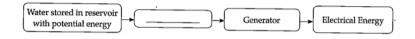
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56. Explain how sewage is disposed in cities and villages?



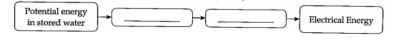
57. Fill in the blocks:

Stages of generation of Eletrical energy from hydroelectric power station

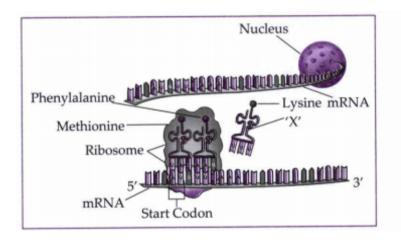




58. Step by step energy conversion in hydroelectric power plant.



59. Observe the given diagram and answers the questions given below it.



Identify the molecule labelled as 'X' in the given diagram.



60. Which substance forms the outer layer of their exoskeleton?



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61. What is DNA finger printing?



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62. Write the symptoms, effect and remedial measures for : Motor accident



63. Give three examples of each:

Hobbies to reduce stress.



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64. Give three examples of each:

Diseases endangering the social health.



body and also for restoration of emaciated body, wound healing, formation of blood cells, etc.

- A. Meiosis
- **B.** Nutrition
- C. Mitosis
- D. Cytokinesis

Answer:



66. Choose the correct alternative and write that alphabet against the sub-question number:

Vegetative propagation is performed with the help of.....in sweet potato.

- 1) root
- 2) stem
- 3) leaf
- 4)flower

A. eyes

B. roots
C. buds
D. climber
Answer:
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67. Different scientists classified the animals.
But classified according to the criteria
like body size, habits and habitats.

A. Theophrastus
B. Aristotle
C. Linnaeus
D. John Ray
Answer:
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68. Subphylum Vertebrata is further divided into classes.

A. four
B. seven
C. five
D. six
Answer:
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69. Sycon, Hyalonea, Euplectella belong to
Phylum

- A. Cnidaria
- B. Annlida
- C. Arthropoda
- D. Porifera

Answer:



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70. Name the following: The title of the book

Darwin published.



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71. Vitamins A,D,E,K: Fat-soluble:: Vitamins B and C: ____.



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72. Select the odd one out:

Prophase, Metaphase, Anaphase, Telophase



73. In Meiosis,

Chromosome numbers leads to ____Formation of _____ gamets.



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74. State whether the following statements

True or False. Correc the false statements.

Geographical or reproductive isolation leads





75. Distinguish between

Conventional energy resources and Nonconventional energy resources.



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76. DNA fingerprinting is useful in forensic sciences and paternity testing.



77. What are the main features of Industrial Microbiology?



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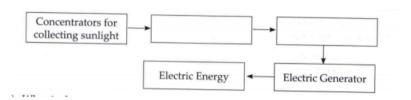
78. State the uses of stem cells.



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79. Give examples of each (i) Hobbies to reduce stress. (ii) Physical problems arising due to excessive use of mobile phones.

80. Give the different stages in solar thermal power plant.



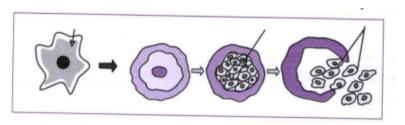


81. What is the meaning of "Jivo Jivasya Jivanam"?



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82. Observe the diagram and explain the formation of cyst in Amoeba during during multiple fission.





83. When does the cyst rupture?



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84. How many amoebulae are released at one time?

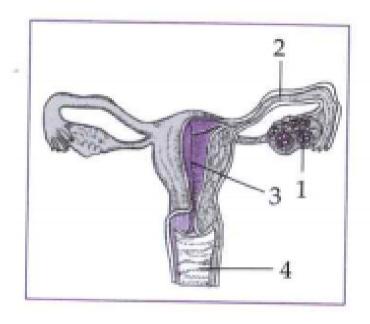


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85. Why is it termed as the 'Energy currency' of the cell?



86. Observe the structure of Human reproductive system, and answer the following questions.



Name the organs (1,2,3 and 4).



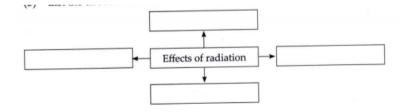
87. Answer the following question in detail:

What is radioactive pollution? What are its effects?



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88. List the effects of radiations.





89. What will be the effect of industry established on river bank on the river ecosystem?



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90. Write the advantages and limitations of Nuclear energy:



91. What is Green Revolution, Blue Revolution and White Revolutions?



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92. Write in brief about progressive changes in animal classification.

